

Village name: _____

Village ID: _____

Farmer name: _____

Farmer ID: _____

The Economics of Community Based Seed Production: A Case Study of the Association Song Koaadba (ASK), Burkina Faso

Farmer Survey

revised: 6/1/2015

INSTRUCTIONS:

For ASK member farmers: Ask to speak to the person who is the member of ASK (see the farmer selection list). If this person is not available, complete X1-X7 and then end the interview and go to the next farmer on the replacement list. If he/she is available, complete all the fields (X1 to X7) before beginning the interview.

For non-ASK farmers: Ask to speak to the person who is the Head of the Household or the person most familiar with cowpea production. If this person is not available or the household does not produce cowpea, complete X1-X7 and then end the interview and go to the next farmer on the replacement list. If he/she is available, complete all the fields (X1 to X7) before beginning the interview.

X1. Date of the visit (mm/dd): _____	X3. Province ID: _____	X5. Village ID: _____	X7. Type of farmer based on the farmer list (select one): <input type="checkbox"/> 1=ASK member Seed producer <input type="checkbox"/> 3=non-ASK member <input type="checkbox"/> 2=ASK member (non-seed producer)
X2. Type of HH (select one): <input type="checkbox"/> 1=Selected <input type="checkbox"/> 2=Replacement	X4. Department ID: _____	X6. Name of the enumerator: _____	

VERIFICATION QUESTIONS TO DETERMINE ELIGIBILITY: Ask one of the following filter questions corresponding to the Type of Farmer selected in X7.

1. For ASK member SEED PRODUCER farmer: X8. Are you currently a member of ASK or were you a member of ASK last year? 1=Yes 2=No
X9. Did you produce cowpea seed for sale **in any years in the past**: 1=Yes 2=No

If the response is NO to either one of these questions, please stop the interview

2. For ASK non-seed producer farmer: X10. Are you currently a member of ASK or were you a member of ASK last year? 1=Yes 2=No
X11. Did you produce cowpea in the last season (2014): 1=Yes 2=No

If the response is NO to either of these questions, please stop the interview

3. For non-ASK farmer: X12. Are you currently a member of ASK or were you a member of ASK last year? 1=Yes 2=No
X13. Did you produce cowpea in the last season (2014): 1=Yes 2=No

If the response is YES to X12 or NO to X13, please stop the interview. Otherwise continue.

X14. Have you heard or know about the **Association Song Koaadba (ASK)**? 1=Yes 2=No > Consent Statement

X15. Have you ever been a member of ASK in the past 1=Yes 2=No

X16. Do you know anyone who is a member of ASK? 1=Yes 2=No > Consent Statement

X17. How long have you been **aware of ASK**? Write the number of years (if less than 1 year, write in decimals) _____ years

CONSENT STATEMENT: IF the farmer meets the eligibility criteria READ the consent statement to the selected respondent and continue with the interview.

X18. Consent statement was read and discussed, and the farmer agreed to be interviewed (check one) 1=Yes 2=No

Village name: _____

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Farmer ID: _____

Section A. Background Information of the Respondent, His/Her Farm, and Membership with ASK

INSTRUCTIONS: Ask the following questions to the person who is on the ASK FARMER LIST or to the head of the HH or a person most familiar with cowpea production (if non-ASK farm HH)

A1	A2	A3	A4	A5	A6
Respondent Name	Gender [1] Male [2] Female	Relationship to the head of the household (use codes) 1=Self 2= Spouse 3= Son/daughter 4=Other (specify)	Age (years completed)	How many years of cowpea farming experience do you have?	Education: Highest level completed [0] No Formal education [1] - [12] School (write years completed) [15] – University [20] Adult Education [99] Other (specify)

A7	A8	A9	A10	A11	A12	A13	A14	A15	A16
Are you currently a member of ASK as an individual or through a farmer group? [1] Individual >A12 [2] farmer group [3] Not a member of ASK >A21	What is the name of the farmer group/ organization that is a member of ASK?	How many members belong to this farmer group?	Are all the members of this group members of ASK? [1] Yes [2] No [88] Don't know	What type of farmer group is this? [1] Farmer cooperative [2] Cowpea specific producer organization [99] Other (specify)	How many years you have been a member of ASK?	How much did you pay as a one-time fee to become a member of ASK (CFA)	How much do you pay as annual fee to remain a member of ASK? CFA	When was the last time you paid this fee? Write the month and year 88-don't remember MM YYYY	

A17	A18	A19	A20
Would you continue to remain a member of ASK, if the membership fee was 50% more than what you pay? [1] Yes [2] No >A19	Would you remain a member, if the membership fee was double? [1] Yes [2] No	What are the benefits you get from being a member of ASK? (select all mentioned) <input type="checkbox"/> 1=Access to Information <input type="checkbox"/> 2=New technologies <input type="checkbox"/> 3=New crop varieties <input type="checkbox"/> 4=Linkage to output market <input type="checkbox"/> 5=Access to inputs (fertilizer, pesticides) <input type="checkbox"/> 6=Access to quality seeds at discounted price <input type="checkbox"/> 7=socio-health development programs <input type="checkbox"/> 99=Other (specify here)	In which of the following activities of ASK have you participated? (read each and select if participated) <input type="checkbox"/> 1=Farmer field school <input type="checkbox"/> 2=Participatory variety selection <input type="checkbox"/> 3=Training on technology related to soil fertility, natural resource management practices <input type="checkbox"/> 4=Training on cowpea seed production <input type="checkbox"/> 5=Training on seed production of other crops

A21	A22
In your opinion, what are the main achievements of ASK related to cowpea?	In your opinion, what are the most important factors contributing to ASK's long term survival and continued expansion?

Village name: _____ Village ID: _____ Farmer name: _____ Farmer ID: _____

A23	A24	A25a	A25b	A25c	A26	A27a	A27b	A28a	A28b	A29a	A29b	A29c	A30a	A30b	A30c	A31a	A31b	A31c		
Is anyone else in your family a member of ASK? [1] Yes [2] No	Are you a member of any other farmer organization or organized group? [1] Yes [2] No >A24	What type of organization do you belong? <i>(if multiple, write each one in a separate column—up to three; if less than 3, enter [888] in columns that are blank)</i> [1] Farmer cooperative [2] Crop specific producer organization [3] Non-agricultural business group [4] Social group [99] Other (specify) [888] Not applicable			Have you completed all the planting for this season (2015)? [1] Yes [2] No	How many parcels of agricultural land are under the management of your household that you own or have rented/borrowed from others? <i>(list land owned and land rented or borrowed from others separately)</i>		What is the total area (in hectares) across all the agricultural fields that are planted by your household or you plan to cultivate or keep fallow this year? (hectares)		Which are the three most important crops on your household's farm in terms of total area planted ? <i>(see codes below)</i>			Which are the three most important crops on your household's farm in terms of total family labor devoted for its production? <i>(see codes below)</i>				Which were the three most important crops on your household's farm in terms of purchased inputs devoted for its production? <i>(see codes below)</i>			
		1 st org	2 nd org	3 rd org		Owned	Rented/borrowed	Cultivated	Kept Fallow	1 st	2 nd	3 rd	1 st	2 nd	3 rd	1 st	2 nd	3 rd		

Crop codes for A29-A31: *(if crop not in this list, write down the name in the corresponding space)*

[1] sorghum	[2] millet	[3] maize	[4] rice	[5] cowpea	[6] soybean	[7] peanut	[8] cassava	[9] yam	[10] potato	[11] cotton	[12] vegetables	[99] Other, specify
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B01. Have you ever produced cowpea **quality declared seed** for sale through assistance from ASK? 1=Yes 2=No > Section C

B02. When was the last time you produced cowpea quality declared seed for sale through assistance from ASK? Write year _____

B02b. If the year mentioned in B02 is before 2014, ask: What is the reason you have not produced cowpea quality declared seed for sale through assistance from ASK since <year>?

B03. How many years of experience you have in producing cowpea quality declared seed? _____

Section B1. Information about cowpea SEED production by VARIETY in the last year seed was produced

Now, I would like to ask you about the Cowpea QUALITY DECLARED SEED production in the last year you produced seed

B04. First tell me, how many different varieties of cowpea seeds did you produce **that year**? _____ *Enumerator, please use this answer to determine the number of rows that need to be filled in the following Tables in Section B. Each row should correspond to a distinct variety of cowpea seed produced*

B05	B06	B07	B08	B09	B10	B11	B12	B13	B14	B15
Variety code	What variety of cowpea seed did you produce in <year>?	Do you plan to produce quality declared seed of this variety in 2015? [1] YES [2] NO [77] Don't know	When did you first produce seed of this variety on your farm? YYYY [77] Don't know	How many hectares of land did you devote for cowpea seed production in <year> for <variety...>? Ha	Did you plant any other crop in the same field in which this variety was planted for seed production [1] YES [2] NO	What quantity of Foundation Seed was planted to produce quality declared seed of <variety...>? KG	How much did you pay for per kg of Foundation Seed? (CFA/Kg)	Who was the main person responsible for the parcel on which the seed was produced for <variety> [1] self [2] spouse [3] son/daughter [99] other (specify)	Gender of the person responsible for this parcel [1] male [2] female	The person responsible belongs to the following age group [1] < 16 years old [2] 16-30 [3] 31-45 [4] 46-65 [5] > 65 years old
1										
2										
3										

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B0	B16	B17	B18	B19a	B19b	B19c	B19d	B20	B21	B22	B23	B24	B25a	B25b	B25c	B26a	B26b	B26c
Variety ID	Was the seed produced using irrigation? [1] Yes [2] No [77] Don't know	Did you apply any insecticide in seed production? [1] Yes [2] No [77] Don't know	Did you apply any fungicide? [1] Yes [2] No [77] Don't know	What chemical fertilizer and quantity did you apply? (highest quantity)		What other chemical fertilizer and quantity did you apply? (lower quantity)		Approximately how much did you spend on the following inputs on seed production for this variety in 2014? <i>(CFA)</i>				Did you purchase any inputs used for seed production on credit? [1] Yes [2] No [77] Don't know	How many times during the different seed growing phases did a technical staff from ASK visit your farm to monitor seed production of this variety?			On average, how much time did the technical staff spend on each visit during the following seed production stages? <i>Indicate HOURS spent per visit</i>		
				Type	Amount	Type	Amount	Chemical Fertilizer	Herbicide	Chemical pesticides	Hired labor		Before or during planting	After planting to flowering stage	After flowering to harvest	Before or during planting	After planting to flowering stage	After flowering to harvest
1																		
2																		
3																		

B0	B27a	B28	B29	B30	B31a	B31b	B31c	B31d	B31e	B31f	B32	B33a	B33b	B34a	B34b
Var ID	How much did you have to pay to the technical staff for each visit? <i>(write zero, if nothing paid)</i> <i>CFA per visit</i>	Did ASK conduct seed germination test of cowpea seed harvested last year?	What was the total quantity of Cowpea Seed harvested in 2014? <i>(kg)</i>	Of the total quantity harvested, how much was approved by ASK as Quality Declared Seed? <i>(should be = to or < B29)</i> <i>(kg)</i>	How much of the total quantity of Quality Declared Cowpea Seed produced last year, did you [...]? <i>(write in kg)</i> <i>(write zero where appropriate)</i> <i>(Total across B31a to B31f should equal quantity in B30)</i>						If any seed harvested last year was rejected for sale as quality declared seed, what was the MAIN reason for rejection? <i>0=no seed was rejected</i> <i>1=seed appearance below standard (i.e., size, color)</i> <i>2=seed health issues (insect damage, disease)</i> <i>3=did not meet purity and germination test</i> <i>99=other (specify)</i>	What are the two characteristics you LIKE the most about this variety? <i>[1] Good yield</i> <i>[2] Resistant to diseases and insects</i> <i>[3] Early maturity</i> <i>[4] Good cooking quality/taste</i> <i>[5] Good price/market demand</i> <i>[99] Other (specify)</i>		What are the two characteristics you DISLIKE the most about this variety? <i>[0] Nothing</i> <i>[1] Low yield</i> <i>[2] Susceptible to diseases and insects</i> <i>[3] Late maturity</i> <i>[4] Poor cooking quality/taste</i> <i>[5] Lower price/mkt.demand</i> <i>[99] Other (specify)</i>	
					Keep for your own use?	Sold to farmers in this village	Sold to farmers from other villages	Sold to traders, organizations	Sold to ASK	Remained un-sold or un-used		1 st	2 nd	1 st	2 nd
1															
2															
3															

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Section B2. Information about FOUNDATION seed received for Seed Production in <year>

Now, I would like to ask you about the Foundation seed you received in 2014 for the production of Quality Declared Seed you reported producing above

B40	B41	B42	B43	B44a	B44b	B44c	B44d	B45	B46	B47	
Where did you get the Foundation Seed? <i>From:</i> 1=ASK 2=INERA 99=Other	Was the foundation seed delivered to you in the village or did you have to travel to access this seed? 1=delivered in the village >B16 2=traveled elsewhere	Distance traveled to access the foundation seed Kilometers	In what type of package did you receive the foundation seed? [1] Sealed package [2] Open bag [99] Other (specify)	Did the package of foundation seed include the following: [1] Yes [2] No [77] I don't know				Date of production	When did you receive the foundation seed in relation to your planned planting date? [1] One month before [2] One week before [3] Less than one week [4] After the date I was planning to plant [99] Other (specify)	Did you pay cash for the foundation seed at the time of its purchase or was it given to you on credit? 1=cash purchase 2=on credit	How would you rate the quality of foundation seed you received last year? 1=high 2=Medium 3=low
				Variety name	Germination rate	Weight					

Section B3. Information about Quality Declared Seed Production and Post-Harvest Practices

Now, I would like to ask you about the seed production and post-harvest practices, including the sale of quality declared seed you produced in 2014

Enumerator Read: The production of quality declared cowpea seed requires following some specific production and post-harvest practices and guidelines that are different from producing cowpea grain. Can you tell me what specific practices did you follow in 2014 for seed production and how they compare with producing cowpea grain?

	B51. Production of quality declared seed	B52. Production of cowpea grain
Planting practices: Did you.....? (read each option and select the practices followed first for the production of QDS and then for cowpea grain)	<input type="checkbox"/> 1=Mono-cropped <input type="checkbox"/> 2=Inter-cropped <input type="checkbox"/> 3=Had to devote minimum hectares of land for cowpea seed production <input type="checkbox"/> 4=Followed guidelines on planting date based on technical advise <input type="checkbox"/> 5=Followed guidelines on planting date based on traditional practice <input type="checkbox"/> 6=Followed guidelines on seeding rate, seeding method based on technical advise <input type="checkbox"/> 7=Followed guidelines on seeding rate, seeding method based on traditional practice <input type="checkbox"/> 8=Applied fertilizer at the time of planting <input type="checkbox"/> 9=Treated the seed with chemicals to control for pest and disease damage <input type="checkbox"/> 10=do any other planting practices different? If yes, specify here:	<input type="checkbox"/> 1=Mono-cropped <input type="checkbox"/> 2=Inter-cropped <input type="checkbox"/> 3=Had to devote a minimum hectares of land for cowpea production <input type="checkbox"/> 4=Followed guidelines on planting date based on technical advice <input type="checkbox"/> 5=Followed guidelines on planting date based on traditional practice <input type="checkbox"/> 6=Followed guidelines on seeding rate, seeding method based on technical advise <input type="checkbox"/> 7=Followed guidelines on seeding rate, seeding method based on traditional practice <input type="checkbox"/> 8=Put fertilizer at the time of planting <input type="checkbox"/> 9=Treated the seed with chemicals to control for pest and disease damage

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	B51. Production of quality declared seed	B52. Production of cowpea grain
<p>In Production phase:</p> <p>Did you....?</p>	<p><input type="checkbox"/> 11= Hire labor for weeding <input type="checkbox"/> 12=Weeding done by own labor</p> <p><input type="checkbox"/> 13=Applied herbicides <input type="checkbox"/> 14= Did no weeding</p> <p><input type="checkbox"/> 15=Applied fertilizers <input type="checkbox"/> 16= Applied organic fertilizer (e.g., manure)</p> <p><input type="checkbox"/> 17=Applied Pesticides <input type="checkbox"/> 18=Irrigated the field</p> <p><input type="checkbox"/> 19=Visited the field more than once a week to monitor the crop</p> <p><input type="checkbox"/> 20=Visited the field daily (at certain critical phase) to monitor the crop</p> <p><input type="checkbox"/> 21=Consult technical experts if the plants showed signs of stress and followed their advise</p> <p><input type="checkbox"/> 22=Consult other farmers if the plants showed signs of stress and followed their advise</p> <p><input type="checkbox"/> 23=do any other production practices different? If yes, specify here:</p>	<p><input type="checkbox"/> 11= Hire labor for weeding <input type="checkbox"/> 12=Weeding done by own labor</p> <p><input type="checkbox"/> 13=Applied herbicides <input type="checkbox"/> 14= Did no weeding</p> <p><input type="checkbox"/> 15=Applied fertilizers <input type="checkbox"/> 16= Applied organic fertilizer (e.g., manure)</p> <p><input type="checkbox"/> 17=Applied Pesticides <input type="checkbox"/> 18=Irrigated the field</p> <p><input type="checkbox"/> 19=Visited the field more than once a week to monitor the crop</p> <p><input type="checkbox"/> 20=Visited the field daily (at certain critical phase) to monitor the crop</p> <p><input type="checkbox"/> 21=Consult technical experts if the plants showed signs of stress and followed their advise</p> <p><input type="checkbox"/> 22=Consult other farmers if the plants showed signs of stress and followed their advise</p>
<p>Post-harvest phase</p> <p>Did you.....?</p>	<p><input type="checkbox"/> 24=use machinery or special equipment to harvest the cowpea</p> <p><input type="checkbox"/> 25=use seed dryer to dry the seed</p> <p><input type="checkbox"/> 26=conditioned the seed</p> <p><input type="checkbox"/> 27=sorted and graded the seed</p> <p><input type="checkbox"/> 28=treated the seed with chemicals</p> <p><input type="checkbox"/> 29=used solar treatment method to kill insects</p> <p><input type="checkbox"/> 30=stored the seed using traditional method (e.g., plastic container)</p> <p><input type="checkbox"/> 31=stored the seed using triple bag storage method</p> <p><input type="checkbox"/> 32=do any other post-harvest practices different? If yes, specify here:</p>	<p><input type="checkbox"/> 24=use machinery or special equipment to harvest the cowpea</p> <p><input type="checkbox"/> 25=use seed dryer to dry the seed</p> <p><input type="checkbox"/> 26=conditioned the seed</p> <p><input type="checkbox"/> 27=sorted and graded the seed</p> <p><input type="checkbox"/> 28=treated the seed with chemicals</p> <p><input type="checkbox"/> 29=used solar treatment method to kill insects</p> <p><input type="checkbox"/> 30=stored the seed using traditional method (e.g., plastic container)</p> <p><input type="checkbox"/> 31=stored the seed using triple bag storage method</p>
<p>Sale of harvest</p> <p>Did you....?</p>	<p><input type="checkbox"/> 33=sold the seed in a sealed bag with information on the name of the variety, weight, and other information</p> <p><input type="checkbox"/> 34=sold the seed in a sealed bag but with no information on the package</p> <p><input type="checkbox"/> 35=sold the seed in an open bag with information on the name of the variety, weight, and other information</p> <p><input type="checkbox"/> 36=sold the seed in an open bag but with no information</p> <p><input type="checkbox"/> 37=sold the seed in bulk in bags/containers brought by buyers</p> <p><input type="checkbox"/> 38=Not sell any harvest</p> <p><input type="checkbox"/> 39=do any other sale practices different? If yes, specify here:</p>	<p><input type="checkbox"/> 33=sold the seed in a sealed bag with information on the name of the variety, weight, and other information</p> <p><input type="checkbox"/> 34=sold the seed in a sealed bag but with no information on the package</p> <p><input type="checkbox"/> 35=sold the seed in an open bag with information on the name of the variety, weight, and other information</p> <p><input type="checkbox"/> 36=sold the seed in an open bag but with no information</p> <p><input type="checkbox"/> 37=sold the seed in bulk in bags/containers brought by buyers</p> <p><input type="checkbox"/> 38=Not sell any harvest</p>

Village name: _____

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Farmer ID: _____

Enumerator Read: In your experience, if you had **two same size of fields**, and you produced cowpea seed on one field and cowpea grain on the other. How much of the following resources would you typically devote for seed production compared with grain production?

Resource Category	Resources devoted	What is the total quantity of <unit...> you would invest on <category...> during the entire season in producing cowpea QDS seed	What is the total quantity of <unit...> you would invest on <category...> during the entire season in producing cowpea grain
	Unit		
Household labor	Days	B53a:	B53b:
Hired labor	CFA	B54a:	B54b:
Seed for planting	CFA	B55a:	B55b:
Purchased inputs for production (e.g., fertilizer, pesticides)	CFA	B56a:	B56b:
Supplies / inputs for post-harvest processing and sale	CFA	B57a:	B57b:

B58	B59	B60	B61	B62	B63	B64	B65	B66	B67
At what price did you sell the Quality Declared Seed produced in <year>? CFA / kg	Who set this price? 1=ASK 2=Government 3=Farmer group 99=Other (specify) 88=Don't know	Did you know this price before you decided to grow Quality Declared seed of cowpea? 1=Yes 2=No	If the price was 10% LOWER THAN the price you received last year, would you have produced the same, less or no quantity of cowpea QDS seed? 0=Not produced any seed 1=Produced same quantity 2=Produced less quantity	What if the price was 20% LOWER THAN the price you received last year, would you have produced same, less or no quantity of cowpea QDS seed? 0=Not produced any seed 1=Produced same quantity 2=Produced less quantity	What if the price was 30% LOWER THAN the price you received last year, would you have produced same, less or no quantity of cowpea QDS seed? 0=Not produced any seed 1=Produced same quantity 2=Produced less quantity	If the price was 10% MORE THAN the price you received last year, would you have produced MORE cowpea QDS seed? 1=Yes 2=No >B66	What would you have produced LESS to make land available for cowpea seed production? (write the crop name) 77=would have not reduced production of any crop, but would have rented or borrowed more land	What are the two main constraints YOU face in expanding cowpea seed production ? 1=labor 2=land 3=Cash 4=technical guidance 5=Lack of demand resulting in unsold inventory 6=Price uncertainty 99=Other (specify)	1 st 2 nd

B68	B69	B70	B71	B72	B73	B74a	B74b
Were you able to sell all the QDS seed produced last year to farmers, traders or organizations? 1=Yes <B71 2=No	What was the MAIN reason you were not able to sell all the seed produced last year? 1=no demand for seed 2=seed price was too high 3=no transport facility 99=Other, specify	What did you do with the un-sold seed from last year? 1=sold as grain at lower price 2=sold to ASK at full seed price 3=stored to sell this year 99=Other, specify	In your estimate, how many farmers purchased cowpea seed from you last year? 0=did not sell seed directly to farmers > Section C	On average, what quantity of cowpea seed was purchased from you by individual farmers last year? 999=did not sell seed to farmers Kg	What percentage of your farmer clients purchase cowpea seed every year? Response should be between 0 to 100	In your opinion what are the two main advantages to farmers in having access to a local source of seed produced by small scale seed producers like you [1] It's closeness/proximity /presence in the community [2] Flexibility in payment method [3] Timely availability of seed [4] Good quality of seed [5] Community seed security [6] Affordability of seed Most important	[99] Other (specify)) 2nd important

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Section C: Awareness, knowledge and perception on the benefits of quality seed as planting material and of community based seed production

C1	C2	C3	C4	C5a	C5b	C5c	C6a	C6b	C7
Do you have easy access to certified seeds of cowpea ?	Have you ever used or purchased certified cowpea seed ?	Do you have easy access to certified seeds of other crops ?	Have you ever used or purchased certified seed of other crops?	For which crops you have used certified seeds? <i>List up to 3 crops</i> <i>888=no more</i>			In your opinion what are the two main advantages of using certified seeds (<i>see code list</i>)		Have you ever produced certified seed of cowpea or any other crop? <i>[1] Yes, cowpea</i> <i>[2] Yes, other crop</i> <i>[3] Yes, both 1 and 2</i> <i>[4] No</i>
<i>[1] Yes</i> <i>[2] No</i> <i>[3] don't know what is a certified seed</i>	<i>[1] Yes-it was given free of cost</i> <i>[2] Yes-I purchased it</i> <i>[3] No, I have not used it</i>	<i>[1] Yes</i> <i>[2] No</i> <i>[3] don't know what is a certified seed</i>	<i>[1] Yes</i> <i>[2] No >C6</i>	Crop 1	Crop 2	Crop 3	Most important	2 nd important	

Code for C6 and C11 (advantages)

1=high germination rate
 2=less disease and pest problem
 3=Uniformity in plant growth
 4=high quality grain at harvest
 5=high yield
 99=other (specify)
 88=have not used this type of seed; no more, don't know

C8	C9	C10	C11a	C11b	C12a	C12b	C12c	C12d	C12e
Have you ever used or purchased Quality Declared Seed of cowpea? <i>[1] Yes</i> <i>[2] No</i> <i>[3] don't know what is quality declared seed</i>	When was the last time you used QDS seed of cowpea for grain production? YYYY <i>88=have not used this type of seed</i>	From whom did you purchase or access the QDS seed of cowpea? <i>1=Own production</i> <i>2=From another farmer in this village</i> <i>3=From a farmer in another village</i> <i>4=from ASK</i> <i>5=from other organization</i> <i>99=Other (specify)</i> <i>88=have not used this type of seed</i>	In your opinion what are the two main advantages of using Quality Declared seeds <i>(see code list)</i>		If you had easy access to both certified cowpea seed and quality declared cowpea seed, what type of seed would you purchase for your cowpea production in the following scenario? <i>1=I would purchase certified seed</i> <i>2=I would purchase QDS seed</i> <i>3=I am indifferent</i> <i>4=I would not purchase either; I would use own saved seed</i> <i>99=Can't tell as I have not used these types of seeds (have no prior experience)</i>				
			Most important	2 nd important	Price of certified seed = QDS seed	Price of certified seed 20% more than QDS seed	Price of certified seed 33% more than QDS seed	Price of certified seed 50% more than QDS seed	Price of certified seed is double the price of QDS seed

Village name: _____

Village ID: _____

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Farmer ID: _____

Section D1. Cowpea Production in 2014

Now, I would like to ask you about your cowpea grain production in 2014 agricultural season.

D1. Did you have the following problems more in 2014 compared to the previous 2 years? [1] Yes [2] No [88] Don't know

D3a Insects **D3b** Diseases **D3c** Drought **D3d** Too much rain

D2. In **2014** planting season, how many **PARCELS** of agricultural land were planted to cowpea grain production? (If **ZERO PARCELS** in 2014, GO TO SECTION E)
ENUMERATOR: Define a cowpea PARCEL as a contiguous piece of land in which one cowpea variety was planted

D3. In the 2014 planting season, what was the total hectare of land cultivated across **all parcels and all crops**?

Enumerator, please use the answer in D2 to determine the number of rows that need to be filled in the following Tables in Section D. Each row should correspond to a distinct agricultural parcel in which cowpeas were planted in 2014. Start by listing the biggest cowpea parcel.

Parcel characteristics, use of inputs and varieties for cowpea production during the 2014 season

D0	D4	D5	D6	D7	D8	D9	D10	D11	D12	D13	D14
Parcel ID	Unique description of the parcel (e.g., its location, some landmark, etc.)	What is the size (area) of this parcel in hectares?	Was cowpea inter-cropped? 1=Yes 2=No >D8	What proportion of this area was planted to cowpea? [1] 25% [2] 33% [3] 50% [4] 67% [5] 75% [6] >75%	What variety of cowpea seed was planted on this parcel? [1] Kvx396-4-5-2D [2] Kvx414-22-2 [3] Kvx414-22-72 [4] CR0607 [5] Kvx61-1 [6] Komcallé [7] Nafi [8] Tiligré [99] Other, specify [88] Don't know	Was this an improved variety or a traditional variety? 1=Improved 2=Traditional 88=Don't know	Was the seed of this variety planted on this parcel a certified seed, quality declared seed or harvested grain used as seed? [1] Certified seed [2] Quality Declared seed [3] Grain used as seed [88] don't know	What was the primary source of the seed planted on this parcel [1] grain saved from own harvest [2] Purchased from other farmer [3] Purchased in the market from a grain vendor [4] Purchased in the market from a seed vendor as packaged seed [5] Received from an NGO or government program [6] Received/Purchased from ASK [99] Other, specify	When did you first plant this variety on your farm? [88] Don't know YYYY	How much seed was planted of this variety in 2014? (in kg)	What was the total quantity of cowpeas harvested from this parcel in 2014? (in kg)
P1											
P2											
P3											
P4											

Village name: _____ Village ID: _____

Farmer name: _____

Farmer ID: _____

Section D2. Experience with using cowpea seed produced by ASK seed producer member

Now I would like to ask you about your experience with purchasing or using cowpea seed obtained from ASK or a seed producer who is a member of ASK

D21	D22	D23	D24	D25	D26	D27a D27b	D28	D29a	D29b	D30a	D30b
Have you ever purchased cowpea seed from ASK or a farmer seed producer who is a member of ASK? [1] Yes [2] No > D43 [99] Don't know > D43	When was the last time you purchased cowpea seed from a seed producer who was a member of ASK? YYYY	What is the name of the farmer from whom you purchased the cowpea seed last time? 88=Don't know / can't remember	Does this farmer reside in this village or another village? 1=this village >D28 2=another village in the same Department 3=village from another Department	If another village, what is the name of that village 88=Don't know / can't remember	How far is this village from your house in terms of distance (km) and travel time by most common mode of transportation (hh:mm)? 88=Don't know / can't remember		What variety was the cowpea seed you purchased? [1] Kvx396-4-5-2D [2] Kvx414-22-2 [3] Kvx414-22-72 [4] CR0607 [5] Kvx61-1 [6] Komcallé [7] Nafi [8] Tiligré [99] Other, specify [88] Don't know	What are the two characteristics you LIKE the most about this variety? [1] Good yield [2] Resistant to diseases and insects [3] Early maturity [4] Good cooking quality/taste [5] Good price/market demand [99] Other (specify)		What are the two characteristics you DISLIKE the most about this variety? [0] Nothing [1] Low yield [2] Susceptible to diseases and insects [3] Late maturity [4] Poor cooking quality/taste [5] Lower price/mkt.demand [99] Other (specify)	
					Distance (km)	Travel time hh mm		1 st	2 nd	1 st	2 nd

D31	D32	D33a	D33b	D33c	D33d	D34	D35	D36	D37	D38	
How much quantity of seed did you purchase? Kg	In what type of package did you receive the seed? [1] Sealed package [2] Open bag [99] Other (specify)	Did the package of seed include the following: [1] Yes [2] No [77] I don't know					Was this seed sold as certified seed or a Quality Declared Seed? 1=certified seed 2=quality declared seed 88=don't know	When did you receive the seed in relation to your planned planting date? [1] More than one month before [2] One week before [3] Less than one week [4] After the date I was planning to plant [99] Other (specify)	Did you pay cash for the seed at the time of its purchase or was it given to you on credit? 1=cash purchase 2=on credit	How much did you pay for the seed per kg? CFA / kg	In your opinion was the price of the seed [...]? [1] Lower than what you were willing to pay [2] Right around the rate you were willing to pay [3] Higher than what you were willing to pay
		Variety name	Germination rate	Weight	Date of production						

D39	D40	D41	D42
How would you rate the quality of the seed you received from that seed producer? 1=high 2=Medium 3=low [88] I don't know / don't remember	If rated low: What is the main reason for rating the seed as lower quality? [1] low/zero germination rate [2] poor plant growth [3] It was prone to diseases and insects [4] It had mixed varieties with different plant height and maturity [99] Other (specify)	Was the seed delivered to you in the village or did you have to travel to access this seed? 1=delivered in the village >D32 2=traveled elsewhere	Distance traveled to access the seed Kilometers <Skip to D44a>

Village name: _____ Village ID: _____ Farmer name: _____ Farmer ID: _____

D43	D44a	D44b	D45a	D45b
<p>What is the main reason why you have never purchased seed from a seed producer who is a member of ASK?</p> <p>1=I don't know any such seed producer 2=I prefer to use my own saved seed 3=I am not sure about the quality of seed 4=It is expensive (cannot afford) 5=they don't sell the variety I like 99=Other (specify)</p>	<p>In your opinion what are the two main advantages to farmers in having access to a local source of seed produced by small scale seed producers living close to the community?</p> <p>[1] It's closeness/proximity/presence in the community [2] Flexibility in payment method [3] Timely availability of seed [4] Good quality of seed [5] Community seed security [6] Affordability of seed [99] Other (specify) [88] Don't know</p>		<p>In your opinion what are the two main disadvantages of purchasing seeds from a small-scale farmer seed producer?</p> <p>[1] Poor quality of seed [2] Seed not available on time [3] Inadequate capacity to meet the seed needs of the community in terms of quantity [4] Inadequate capacity to meet the seed needs of the community in terms of diversity of varieties demanded [99] Other (specify) [88] Don't know</p>	
	Most important	2nd important	Most important	2nd important

Section D3. Preference for Cowpea Varietal Traits and Demand for Seed

	D50	D51	D52	D53	D54	D55
<p>If I gave you numbers 1 to 10, where 1 means 'highly preferred by you and your family' and 10 means 'least preferred by you and your family', how would you assign those numbers to the following traits in a cowpea variety? Describe your preference for a specific trait.</p>			<p>What is the maximum amount of money you would be willing to pay per kg for the seed of a variety that has the preferred qualities indicated in D51?</p> <p>CFA / kg</p>	<p>How often would you purchase clean and high-quality seed of a variety that has all the desired traits</p> <p>[1] Once every year [2] every 2 years [3] every 3-5 years [4] more than every 5 years [0] I would not purchase seed (only use saved seed)====>Go to Section E</p>	<p>What quantity of seed would you purchase at that frequency (indicated in D53)?</p>	
<p>Traits (first read them all, then ask to rank them)</p>	<p>Trait ID</p>	<p>Rank (assign numbers 1-10 without repeating) [99] Not preferred at all</p>			<p>Quantity</p>	<p>Units [1] Kg [2] Lbs [99] Other (specify units)</p>
Seed color and size	1					
Resistance to field pests and diseases	2					
Resistance to storage pests	3					
Cooking time	4					
Yield	5					
Taste	6					
Earliness of maturity	7					
Marketability (Easy to sell)	8					
Taste of green pods	9					
Other (Specify: _____)	10					

Village name: _____

Village ID: _____

Farmer name: _____

Farmer ID: _____

E. Family Socioeconomic characteristics, poverty scorecard indicators, and role of cowpea in HH economy

E1	E2	E3	E4	E5	E6	E7	E8	E9	E10	E11	E12
How many people belong to this household?			How many household members are 14-years-old or younger?	In what languages can the male head/spouse read and write? <i>0 =None or no male head / spouse 4 =French only 5 =A non-French language (regardless of French literacy)</i>	Has the female head/spouse completed first grade? <i>0 =No 0 =No female head / spouse 9 =Yes</i>	What is the main source of energy for lighting: Is it... <i>8 =electricity or solar energy? 5 =flashlight or batteries? 4 =candles, kerosene or LPG? 0 =firewood, or other?</i>	What toilet arrangement does the household have? <i>15 =Ventilated pit latrine, or flush to a septic tank 4 =Non-ventilated pit latrine 0 =No toilet arrangement, or other</i>	Does the household own a television? <i>10 =Yes 0 =No</i>	Does the household own a bed or a mattress? <i>3 =Yes 0 =No</i>	Does the household own a scooter or a motorcycle? <i>6 =Yes 0 =No</i>	How many head of cattle or other large animals does the household now own?
Males	Females	Total									

E13	E14	E15	E16	E17	E18	E19	E20	E21
Did your HH purchase cowpea grain for consumption in the past 12 months? <i>[1] YES [2] NO</i>	Did your HH use agricultural credit in the past 12 months? <i>[1] YES [2] NO</i>	Did your HH receive remittances from a relative in the past 12 months? <i>[1] YES [2] NO</i>	In a typical year, what share of your HH income comes from cowpea grain sales ? <i>[0] zero [1] Less than 25% [2] Between 25% and 50% [3] Between 50% and 75% [4] More than 75%</i>	In a typical year, what share of your HH income comes from cowpea seed sales ? <i>[0] zero [1] Less than 25% [2] Between 25% and 50% [3] Between 50% and 75% [4] More than 75%</i>	In a typical year, what share of your HH annual cowpea grain consumption is satisfied by your own production? <i>[1] Less than 10% [1] Between 10- 25% [2] Between 25% and 50% [3] Between 50% and 75% [4] Between 75-90% [6] More than 90%</i>	In a typical year, how long does your food grain reserves of cowpea last after harvest? <i>[1] Less than one month [2] One to three months [3] Three to six months [4] Six to nine months [5] Until the harvest in the following season [77] Don't know / can't answer</i>	In a typical year, when bean reserves are over, how often is grain purchased for consumption? <i>[1] Never [2] Every day [3] Few times per week [4] Once a week [5] 2-3 times per month [6] Once a month [77] Don't know / can't answer</i>	In the past 7 days, how many days cowpeas were cooked for home consumption?

E22. Do you have any suggestions regarding what is needed to increase farmers' cowpea yields?

THANK YOU VERY MUCH FOR YOUR TIME TO PARTICIPATE IN THIS STUDY